



# County of Los Angeles CHIEF EXECUTIVE OFFICE

713 KENNETH HAHN HALL OF ADMINISTRATION  
LOS ANGELES, CALIFORNIA 90012  
(213) 974-1101  
<http://ceo.lacounty.gov>

WILLIAM T FUJIOKA  
Chief Executive Officer

October 9, 2007

Board of Supervisors  
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Fifth District

The Honorable Board of Supervisors  
County of Los Angeles  
383 Kenneth Hahn Hall of Administration  
500 West Temple Street  
Los Angeles, California 90012

Dear Supervisors:

## **APPROVE BEACH RESTROOM SEPTIC SYSTEM REPLACEMENT PROGRAM AT MALIBU/SURFRIDER, POINT DUME, TOPANGA AND ZUMA BEACHES (THIRD DISTRICT) (3 VOTES)**

### **IT IS RECOMMENDED THAT YOUR BOARD:**

1. Find that this action is exempt from the provisions of the California Environmental Quality Act.
2. Approve Beach Septic System Replacement Program, Capital Project scopes of work and budgets, capital projects consisting of the replacement of beach restroom septic systems and leach fields as described herein, and authorize the Department of Public Works Water Resources Division to deliver the projects.

### **PURPOSE/JUSTIFICATION OF RECOMMENDED ACTION**

Approval of the recommended actions will allow the Department of Public Works Water Resources Division to manage and proceed with the Beach Septic System and Leach Field Replacement Program.

The program consists of Capital Projects to replace the septic systems and leach fields at sixteen County operated beaches on Santa Monica Bay (see Attachment A). Each project includes the removal of existing septic pumps and tanks, the abandonment of the existing leach fields, and the installation of an advanced treatment septic system,

including pumps, tanks, telemetry monitoring system, filter pods, and leach field. The new septic systems and leach fields will have increased capacity and will be more efficient in sanitizing wastewater. Five of the replacement projects will include below grade sea walls near the restrooms and leach fields where exposure to high tides from severe storm events could result in the destruction of the restroom structures and septic systems. Each of the sea walls will be approximately 100 to 200 feet in length, as much as 30 feet deep, and comprised of concrete, rock, steel or wood.

The subject beach restroom septic systems and leach fields are an average age of twenty-five years old and they have exceeded their useful life. The septic systems at Topanga State Beach and Surfrider Beach have ceased to function properly and require immediate replacement. The remaining septic systems are at risk of sewage overflows and require bi-weekly septic pumping to continue the use of the restrooms and prevent potential public and environmental health hazards.

The beaches where the sea walls are recommended have historically been prone to severe erosion from storms, which has compromised or destroyed structures on or adjacent to them. In addition to protecting the investment to replace the systems and leach fields, the sea walls will also address Department of Public Health concerns by reducing the amount of bacteria and effluents from being released into Santa Monica Bay.

The projects will be managed by the Department of Public Works Water Resources Division and will be completed using Board-Approved Job Order Contractors and As-Needed Consultants. The Septic System Replacement program will be completed over three years wherein construction will occur in the off-season months to avoid interruption of services during summer months.

### **Implementation of Strategic Plan Goals**

The recommended actions support the County's Strategic Plan Goals 4, Fiscal Responsibility and 7, Health and Mental Health. Goal 4 is supported by securing two Clean Beaches Initiative Grants from the California State Water Resources Control Board, totaling \$213,600. The grant will partially fund the septic system replacement project at Surfrider Beach. The program supports Goal 7 by mitigating potential health and environmental hazards at all the subject beach restrooms.

### **FISCAL IMPACT/FINANCING**

The cost estimate to complete the sixteen projects of the program is \$13.788 million, including contingencies. Two grants from the California State Water Resources Control Board, totaling \$213,600 have been secured to partially offset the cost of the projects at Topanga and Surfrider Beach, bringing the Net County Cost of the program to \$13.574 million. As part of the Fiscal Year 2007-08 Supplemental Changes, sufficient appropriation was allocated to each of the subject Capital Project Budgets to fund design and construction of the replacement septic systems, leach fields and sea walls as outlined in Attachment B.

### **Operating Budget Impact**

Based on the current estimates for maintenance, monitoring and required water quality reporting to the Regional Water Quality Control Board, the average annual cost to operate the advanced septic systems is \$4,000.

There will be no operating costs in Fiscal Year 2007-2008 due to the manufacturer warranties for the first twelve months from the time the project is complete. Based on the current project schedule, estimated on-going maintenance costs will be incurred beginning in Fiscal Year 2008-2009. The Department of Beaches and Harbors will request funding for the on-going costs in its Fiscal Year 2008-2009 Proposed Budget Request.

### **FACTS AND PROVISIONS/LEGAL REQUIREMENTS**

The failure of the septic systems and leach fields has resulted in system overflows, risking bacteria contamination of the beaches and beach water of Santa Monica Bay. Through water quality monitoring, indications of unacceptable levels of bacteria could result in daily fines and mandatory remediation plans by the Federal Environmental Protection Agency and/or the Regional Water Quality Control Board.

The recommendations to construct sea walls at five of the project sites are based on the proximity of the restrooms and septic systems to the shore, a study of tidal activity on current beach conditions and on the history of severe erosion and structural damage caused by storm waves at the subject beaches.

### **ENVIRONMENTAL DOCUMENTATION**

This action is exempt from the California Environmental Quality Act (CEQA) pursuant to Sections 15302 (b), 15303 (c) and 15304 (d) of Title 14 of the California Code of Regulations, and pursuant to Classes 2, 3 and 4 of the County's Environmental Document Reporting Procedures and Guidelines, adopted by your Board on November 17, 1987.

### **CONTRACTING PROCESS**

The proposed projects will be managed by the Department of Public Works Water Resources Division and construction will be completed through Board approved DPW Job Order Contracts.

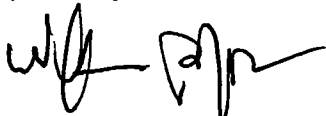
### **IMPACT ON CURRENT SERVICES (OR PROJECTS)**

The construction of the subject projects will have no negative effect on County projects or services.

### **CONCLUSION**

Please return two approved copies of this letter to my office.

Respectfully submitted,



WILLIAM T FUJIOKA  
Chief Executive Officer

WTF:LS:DL  
JSE:DJT:RB

Attachments (2)

- c. County Counsel  
Department of Beaches & Harbors

**BEACH SEPTIC REPLACEMENT PROGRAM****Project Budgets and Construction Schedule Summary**

C.P. No.	Project Name	Septic System Cost Estimate	Sea Wall Cost Estimate	Total Project Cost Estimate	Construction Completion Date
<b><u>Fiscal Year 2007-08</u></b>					
86705	Zuma #1	\$714,000	\$0	\$714,000	Dec-2007
86706	Zuma Lifeguard Hq.	456,000	0	456,000	Dec-2007
86794	Zuma #5	715,000	0	715,000	May-2008
86792	Zuma #3	766,000	0	766,000	May-2008
86793	Zuma #4	<u>694,000</u>	<u>0</u>	<u>694,000</u>	May-2008
	<b>Subtotal</b>	<b>\$3,345,000</b>	<b>\$0</b>	<b>\$3,345,000</b>	
<b><u>Fiscal Year 2008-09</u></b>					
86791	Malibu Surfrider*	\$704,000	\$500,000	\$1,204,000	Dec-2008
86903	Topanga*	838,000	500,000	1,338,000	Dec-2008
86941	Point Dume #1*	699,000	500,000	1,199,000	May-2009
86944	Point Dume #2*	699,000	500,000	1,199,000	May-2009
86943	Point Dume #3*	<u>699,000</u>	<u>500,000</u>	<u>1,199,000</u>	May-2009
	<b>Subtotal</b>	<b>\$3,639,000</b>	<b>\$2,500,000</b>	<b>\$6,139,000</b>	
<b><u>Fiscal Year 2009-10</u></b>					
86857	Zuma #6	\$720,000	\$0	\$720,000	Dec-2009
86859	Zuma Mtce. Yard	702,000	0	702,000	Dec-2009
86858	Zuma #7	702,000	0	702,000	Dec-2009
86931	Zuma #2	727,000	0	727,000	May-2010
86933	Zuma #8	727,000	0	727,000	May-2010
86934	Zuma #9	<u>726,000</u>	<u>0</u>	<u>726,000</u>	May-2010
	<b>Subtotal</b>	<b>\$4,304,000</b>	<b>\$0</b>	<b>\$4,304,000</b>	
	<b>Grand Total</b>	<b>\$11,288,000</b>	<b>\$2,500,000</b>	<b>\$13,788,000</b>	

\*Requires below grade sea wall to prevent erosion from high tides due to severe storm events.

**BEACH SEPTIC REPLACEMENT PROGRAM****C.P. No. 86705: ZUMA BEACH RESTROOM #1**

<b>Project Activity</b>	<b>Scheduled Completion Date</b>
Project Needs Assessment	N/A
Project Feasibility	N/A
Project Program Validation	N/A
Design	October 2007
Construction Bid and Award	N/A
Construction	December 2007

<b>Budget Category</b>	<b>Total Project Budget</b>
Land Acquisition	N/A
Construction	
(a) Septic System & Leach Field Construction	\$445,000
(b) Sea Wall/Barrier	N/A
(c) Change Orders	50,000
Subtotal	495,000
Equipment	1,000
Plans and Specifications	N/A
Consultant Services	15,000
Miscellaneous Expenditures	N/A
Jurisdictional Review and Plan Check	1,000
County Services	
(a) Architectural/Engineering Services	80,000
(b) Project Management and Support Services	122,000
Subtotal	202,000
TOTAL	\$714,000

**BEACH SEPTIC REPLACEMENT PROGRAM****C.P. No. 86706: ZUMA BEACH LIFEGUARD HEADQUARTERS RESTROOM**

<b>Project Activity</b>	<b>Scheduled Completion Date</b>
Project Needs Assessment	N/A
Project Feasibility	N/A
Project Program Validation	N/A
Design	October 2007
Construction Bid and Award	N/A
Construction	December 2007

<b>Budget Category</b>	<b>Total Project Budget</b>
Land Acquisition	N/A
Construction	
(a) Septic System & Leach Field Construction	\$225,000
(b) Sea Wall/Barrier	N/A
(c) Change Orders	<u>25,000</u>
Subtotal	250,000
Equipment	1,000
Plans and Specifications	N/A
Consultant Services	10,000
Miscellaneous Expenditures	N/A
Jurisdictional Review and Plan Check	1,000
County Services	
(a) Architectural/Engineering Services	72,000
(b) Project Management and Support Services	<u>122,000</u>
Subtotal	194,000
<b>TOTAL</b>	<b>\$456,000</b>

**BEACH SEPTIC REPLACEMENT PROGRAM****C.P. No. 86794: ZUMA BEACH RESTROOM #5**

<b>Project Activity</b>	<b>Scheduled Completion Date</b>
Project Needs Assessment	N/A
Project Feasibility	N/A
Project Program Validation	N/A
Design	January 2008
Construction Bid and Award	N/A
Construction	May 2008

<b>Budget Category</b>	<b>Total Project Budget</b>
Land Acquisition	N/A
Construction	
(a) Septic System & Leach Field Construction	\$450,000
(b) Sea Wall/Barrier	N/A
(c) (c) Change Orders	50,000
Equipment	1,000
Plans and Specifications	N/A
Consultant Services	24,000
Miscellaneous Expenditures	N/A
Jurisdictional Review and Plan Check	1,000
County Services	
(a) Architectural/Engineering Services	77,000
(b) Project Management and Support Services	112,000
<b>TOTAL</b>	<b>\$715,000</b>



**BEACH SEPTIC REPLACEMENT PROGRAM****C.P. No. 86792: ZUMA BEACH RESTROOM #3**

<b>Project Activity</b>	<b>Scheduled Completion Date</b>
Project Needs Assessment	N/A
Project Feasibility	N/A
Project Program Validation	N/A
Design	January 2008
Construction Bid and Award	N/A
Construction	May 2008

<b>Budget Category</b>	<b>Total Project Budget</b>
Land Acquisition	N/A
Construction	
(a) Septic System & Leach Field Construction	\$468,000
(b) Sea Wall/Barrier	N/A
(c) Change Orders	<u>52,000</u>
	520,000
Equipment	1,000
Plans and Specifications	N/A
Consultant Services	16,000
Miscellaneous Expenditures	N/A
Jurisdictional Review and Plan Check	1,000
County Services	
(a) Architectural/Engineering Services	111,000
(b) Project Management and Support Services	<u>117,000</u>
Subtotal	228,000
<b>TOTAL</b>	<b>\$766,000</b>

**BEACH SEPTIC REPLACEMENT PROGRAM****C.P. No. 86793: ZUMA BEACH RESTROOM #4**

<b>Project Activity</b>	<b>Scheduled Completion Date</b>
Project Needs Assessment	N/A
Project Feasibility	N/A
Project Program Validation	N/A
Design	January 2008
Construction Bid and Award	N/A
Construction	May 2008

<b>Budget Category</b>	<b>Total Project Budget</b>
Land Acquisition	N/A
Construction	
(a) Septic System & Leach Field Construction	\$450,000
(b) Sea Wall/Barrier	N/A
(c) Change Orders	<u>50,000</u>
	500,000
Equipment	1,000
Plans and Specifications	N/A
Consultant Services	24,000
Miscellaneous Expenditures	N/A
Jurisdictional Review and Plan Check	1,000
County Services	
(a) Architectural/Engineering Services	68,000
(b) Project Management and Support Services	<u>100,000</u>
Subtotal	168,000
<b>TOTAL</b>	<b>\$694,000</b>

**BEACH SEPTIC REPLACEMENT PROGRAM****C.P. No. 86791: MALIBU/SURFRIDER RESTROOM**

<b>Project Activity</b>	<b>Scheduled Completion Date</b>
Project Needs Assessment	N/A
Project Feasibility	N/A
Project Program Validation	N/A
Design	October 2007
Construction Bid and Award	N/A
Construction	December 2008

<b>Budget Category</b>	<b>Total Project Budget</b>
Land Acquisition	N/A
Construction	
(a) Septic System & Leach Field Construction	\$405,000
(b) Sea Wall/Barrier	405,000
(c) Change Orders	<u>90,000</u>
	900,000
Equipment	1,000
Plans and Specifications	N/A
Consultant Services	24,000
Miscellaneous Expenditures	N/A
Jurisdictional Review and Plan Check	1,000
County Services	
(a) Architectural/Engineering Services	109,000
(b) Project Management and Support Services	<u>169,000</u>
Subtotal	278,000
<b>TOTAL</b>	<b>\$1,204,000</b>

**BEACH SEPTIC REPLACEMENT PROGRAM****C.P. No. 86903: TOPANGA STATE BEACH RESTROOM**

<b>Project Activity</b>	<b>Scheduled Completion Date</b>
Project Needs Assessment	N/A
Project Feasibility	N/A
Project Program Validation	N/A
Design	July 2008
Construction Bid and Award	N/A
Construction	December 2008

<b>Budget Category</b>	<b>Total Project Budget</b>
Land Acquisition	N/A
Construction	
(a) Septic System & Leach Field Construction	\$441,000
(b) Sea Wall/Barrier	405,000
(c) Ejection Pump to New Leach Field	135,000
(d) Change Orders	<u>109,000</u>
	1,090,000
Equipment	1,000
Plans and Specifications	N/A
Consultant Services	20,000
Miscellaneous Expenditures	N/A
Jurisdictional Review and Plan Check	1,000
County Services	
(a) Architectural/Engineering Services	40,000
(b) Project Management and Support Services	<u>186,000</u>
Subtotal	226,000
<b>TOTAL</b>	<b>\$1,338,000</b>

**BEACH SEPTIC REPLACEMENT PROGRAM****C.P. No. 86941: POINT DUME BEACH RESTROOM #1**

<b>Project Activity</b>	<b>Scheduled Completion Date</b>
Project Needs Assessment	N/A
Project Feasibility	N/A
Project Program Validation	N/A
Design	March 2008
Construction Bid and Award	N/A
Construction	May 2009

<b>Budget Category</b>	<b>Total Project Budget</b>
Land Acquisition	N/A
Construction	
(a) Septic System & Leach Field Construction	\$405,000
(b) Sea Wall/Barrier	441,000
(c) Change Orders	<u>94,000</u>
	940,000
Equipment	1,000
Plans and Specifications	N/A
Consultant Services	33,000
Miscellaneous Expenditures	N/A
Jurisdictional Review and Plan Check	1,000
County Services	
(a) Architectural/Engineering Services	70,000
(b) Project Management and Support Services	<u>154,000</u>
Subtotal	224,000
<b>TOTAL</b>	<b>\$1,199,000</b>

**BEACH SEPTIC REPLACEMENT PROGRAM****C.P. No. 86944: POINT DUME BEACH RESTROOM #2**

<b>Project Activity</b>	<b>Scheduled Completion Date</b>
Project Needs Assessment	N/A
Project Feasibility	N/A
Project Program Validation	N/A
Design	March 2008
Construction Bid and Award	N/A
Construction	May 2009

<b>Budget Category</b>	<b>Total Project Budget</b>
Land Acquisition	N/A
Construction	
(a) Septic System & Leach Field Construction	\$405,000
(b) Sea Wall/Barrier	441,000
(c) Change Orders	<u>94,000</u>
	940,000
Equipment	1,000
Plans and Specifications	N/A
Consultant Services	33,000
Miscellaneous Expenditures	N/A
Jurisdictional Review and Plan Check	1,000
County Services	
(a) Architectural/Engineering Services	70,000
(b) Project Management and Support Services	<u>154,000</u>
Subtotal	224,000
<b>TOTAL</b>	<b>\$1,199,000</b>

**BEACH SEPTIC REPLACEMENT PROGRAM****C.P. No. 86943: POINT DUME BEACH RESTROOM #3**

<b>Project Activity</b>	<b>Scheduled Completion Date</b>
Project Needs Assessment	N/A
Project Feasibility	N/A
Project Program Validation	N/A
Design	March 2008
Construction Bid and Award	N/A
Construction	May 2009

<b>Budget Category</b>	<b>Total Project Budget</b>
Land Acquisition	N/A
Construction	
(a) Septic System & Leach Field Construction	\$405,000
(b) Sea Wall/Barrier	441,000
(c) Change Orders	94,000
	<u>940,000</u>
Equipment	1,000
Plans and Specifications	N/A
Consultant Services	33,000
Miscellaneous Expenditures	N/A
Jurisdictional Review and Plan Check	1,000
County Services	
(a) Architectural/Engineering Services	70,000
(b) Project Management and Support Services	<u>154,000</u>
Subtotal	224,000
<b>TOTAL</b>	<b>\$1,199,000</b>

**BEACH SEPTIC REPLACEMENT PROGRAM****C.P. No. 86857: ZUMA BEACH RESTROOM #6**

<b>Project Activity</b>	<b>Scheduled Completion Date</b>
Project Needs Assessment	N/A
Project Feasibility	N/A
Project Program Validation	N/A
Design	July 2008
Construction Bid and Award	N/A
Construction	December 2009

<b>Budget Category</b>	<b>Total Project Budget</b>
Land Acquisition	N/A
Construction	
(a) Septic System & Leach Field Construction	\$468,000
(b) Sea Wall/Barrier	N/A
(c) Change Orders	<u>52,000</u>
	520,000
Equipment	1,000
Plans and Specifications	N/A
Consultant Services	16,000
Miscellaneous Expenditures	N/A
Jurisdictional Review and Plan Check	1,000
County Services	
(a) Architectural/Engineering Services	115,000
(b) Project Management and Support Services	<u>67,000</u>
Subtotal	182,000
<b>TOTAL</b>	<b>\$720,000</b>



**BEACH SEPTIC REPLACEMENT PROGRAM****C.P. No. 86859: ZUMA BEACH MAINTENANCE YARD RESTROOM**

<b>Project Activity</b>	<b>Scheduled Completion Date</b>
Project Needs Assessment	N/A
Project Feasibility	N/A
Project Program Validation	N/A
Design	July 2008
Construction Bid and Award	N/A
Construction	December 2009

<b>Budget Category</b>	<b>Total Project Budget</b>
Land Acquisition	N/A
Construction	
(d) Septic System & Leach Field Construction	\$450,000
(e) Sea Wall/Barrier	N/A
(f) Change Orders	<u>50,000</u>
	500,000
Equipment	1,000
Plans and Specifications	N/A
Consultant Services	17,000
Miscellaneous Expenditures	N/A
Jurisdictional Review and Plan Check	1,000
County Services	
(a) Architectural/Engineering Services	115,000
(b) Project Management and Support Services	<u>68,000</u>
Subtotal	183,000
<b>TOTAL</b>	<b>\$702,000</b>

**BEACH SEPTIC REPLACEMENT PROGRAM****C.P. No. 86858: ZUMA BEACH RESTROOM #7**

<b>Project Activity</b>	<b>Scheduled Completion Date</b>
Project Needs Assessment	N/A
Project Feasibility	N/A
Project Program Validation	N/A
Design	July 2008
Construction Bid and Award	N/A
Construction	December 2009

<b>Budget Category</b>	<b>Total Project Budget</b>
Land Acquisition	N/A
Construction	
(a) Septic System & Leach Field Construction	\$450,000
(b) Sea Wall/Barrier	N/A
(c) Change Orders	<u>50,000</u>
	500,000
Equipment	1,000
Plans and Specifications	N/A
Consultant Services	17,000
Miscellaneous Expenditures	N/A
Jurisdictional Review and Plan Check	1,000
County Services	
(a) Architectural/Engineering Services	115,000
(b) Project Management and Support Services	<u>68,000</u>
Subtotal	183,000
<b>TOTAL</b>	<b>\$702,000</b>

**BEACH SEPTIC REPLACEMENT PROGRAM****C.P. No. 86931: ZUMA BEACH RESTROOM #2**

<b>Project Activity</b>	<b>Scheduled Completion Date</b>
Project Needs Assessment	N/A
Project Feasibility	N/A
Project Program Validation	N/A
Design	July 2009
Construction Bid and Award	N/A
Construction	May 2010

<b>Budget Category</b>	<b>Total Project Budget</b>
Land Acquisition	N/A
Construction	
(a) Septic System & Leach Field Construction	\$472,000
(b) Sea Wall/Barrier	N/A
(c) Change Orders	<u>52,000</u>
	524,000
Equipment	1,000
Plans and Specifications	N/A
Consultant Services	18,000
Miscellaneous Expenditures	N/A
Jurisdictional Review and Plan Check	1,000
County Services	
(a) Architectural/Engineering Services	115,000
(b) Project Management and Support Services	<u>68,000</u>
Subtotal	183,000
<b>TOTAL</b>	<b>\$727,000</b>

**BEACH SEPTIC REPLACEMENT PROGRAM****C.P. No. 86933: ZUMA BEACH RESTROOM #8**

<b>Project Activity</b>	<b>Scheduled Completion Date</b>
Project Needs Assessment	N/A
Project Feasibility	N/A
Project Program Validation	N/A
Design	July 2009
Construction Bid and Award	N/A
Construction	May 2010

<b>Budget Category</b>	<b>Total Project Budget</b>
Land Acquisition	N/A
Construction	
(a) Septic System & Leach Field Construction	\$472,000
(b) Sea Wall/Barrier	N/A
(c) Change Orders	<u>52,000</u>
	524,000
Equipment	1,000
Plans and Specifications	N/A
Consultant Services	18,000
Miscellaneous Expenditures	N/A
Jurisdictional Review and Plan Check	1,000
County Services	
(a) Architectural/Engineering Services	115,000
(b) Project Management and Support Services	<u>68,000</u>
Subtotal	183,000
<b>TOTAL</b>	<b>\$727,000</b>

**BEACH SEPTIC REPLACEMENT PROGRAM****C.P. No. 86934: ZUMA BEACH RESTROOM #9**

<b>Project Activity</b>	<b>Scheduled Completion Date</b>
Project Needs Assessment	N/A
Project Feasibility	N/A
Project Program Validation	N/A
Design	July 2009
Construction Bid and Award	N/A
Construction	May 2010

<b>Budget Category</b>	<b>Total Project Budget</b>
Land Acquisition	N/A
Construction	
(a) Septic System & Leach Field Construction	\$471,000
(b) Sea Wall/Barrier	N/A
(c) Change Orders	<u>52,000</u>
	523,000
Equipment	1,000
Plans and Specifications	N/A
Consultant Services	18,000
Miscellaneous Expenditures	N/A
Jurisdictional Review and Plan Check	1,000
County Services	
(a) Architectural/Engineering Services	115,000
(b) Project Management and Support Services	<u>68,000</u>
Subtotal	183,000
<b>TOTAL</b>	<b>\$726,000</b>